



PTO/SB/17 (12-04v2)
Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180.00

Complete if Known

Application Number	09/921,143-Conf. #6449
Filing Date	August 3, 2001
First Named Inventor	Timothy A. Coleman
Examiner Name	C. X. Qian
Art Unit	1636
Attorney Docket No.	PF112P6

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____
☒ Deposit Account Deposit Account Number: 08-3425 Deposit Account Name: Human Genome Sciences, Inc.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee
☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims 6 - 20 = x = Fee Paid (\$)

Multiple Dependent Claims
Fee (\$) Fee Paid (\$)

Indep. Claims 2 - 3 = x = Fee Paid (\$)

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets - 100 = /50 (round up to a whole number) x = Fee Paid (\$)

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement 180.00

SUBMITTED BY

Signature <u>Melissa J. Pytel</u>	Registration No. (Attorney/Agent) <u>41,512</u>	Telephone <u>(301) 610-5764</u>
Name (Print/Type) <u>Melissa J. Pytel</u>	Date <u>Apr 11, 2005</u>	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Timothy A. Coleman

Docket No.: PF112P6

Application No.: 09/921,143

Confirmation No.: 6449

Filed: August 3, 2001

Art Unit: 1636

For: Vascular Endothelial Growth Factor 2

Examiner: C. X. Qian

**EIGHTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Patent and Trademark Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of a claim of the subject application, Attorney for Applicants hereby directs the Examiner's attention to references HP-IP listed on the attached Form PTO/SB/08. Copies of the all non-U.S. Patent references HU-IP are enclosed.

Identification of the listed references is not to be construed as an admission of any individual associated with the filing or prosecution of the subject application that such references are available as "prior art" against the subject application. Furthermore, Applicants do not waive any rights to take appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the subject application.

The listed references are presented so that the Patent and Trademark Office can determine any materiality thereof to the claimed invention. See 37 C.F.R. § 1.104(a) concerning the Examiner's duty to consider and use any such information. Applicants respectfully request that the Examiner make the listed references of record in the file history of the application, and consider the information contained therein during the prosecution of this application.

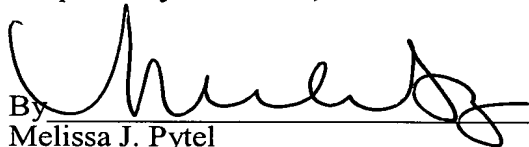
Pursuant to 37 C.F.R. § 1.97(c), because this Information Disclosure Statement is being submitted after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Office Action, or a Notice of Allowance under 37 C.F.R. § 1.311, or an action

that otherwise closes prosecution, the Patent and Trademark Office will consider this Information Disclosure Statement if it is accompanied by the fee as specified in 37 C.F.R. § 1.17(p).

Accordingly, the Patent & Trademark Office is hereby authorized to charge our Deposit Account No. 08-3425 in the amount of \$180.00 as payment of the required fee, as itemized on the Fee Transmittal Sheet submitted concurrently herewith. The Patent & Trademark Office is also authorized to charge any additional required fee or credit any overpayment in connection with this submission to our Deposit Account No. 08-3425.

Dated: April 11, 2005

Respectfully submitted,

By 

Melissa J. Pytel

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MMW/MJP/DBS/ba



PTO/SB/08a/b (08-03)
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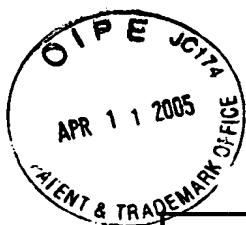
Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	09/921,143-Conf. #6449
				Filing Date	August 3, 2001
				First Named Inventor	Tim Coleman
				Art Unit	1636
				Examiner Name	C. X. Qian
Sheet	1	of	3	Attorney Docket Number	PF112P6

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	HP	6,130,071	10-10-2000	Alitalo et al.	
	HQ	6,221,839	04-24-2001	Alitalo et al.	
	HR	6,245,530	06-12-2001	Alitalo et al.	
	HS	6,403, 088	06-11-2002	Alitalo et al.	
	HT	08/340011	11-14-1994	Alitalo et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	HU	WO-91/02058	02-21-1991	Scios Nova Inc.		
	HV	WO-95/24473	09-14-1995	Human Genome Sciences, Inc.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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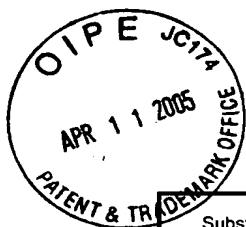
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Sheet	2	of	3	Attorney Docket Number	PF112P6

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	HW	ALTSHULER et al., "Taurine promotes the differentiation of a vertebrate retinal cell type in vitro," <i>Development</i> , 119:1317-1328 (1993).	
	HX	BOCKER-MEFFERT et al., "Erythropoietin and VEGF Promote Neural Outgrowth from Retinal Explants in Postnatal Rats," <i>Invest. Ophthalmol. Vis. Sci.</i> , 43(6):2021-2026 (2002).	
	HY	GAIL M. SEIGEL, "The golden age of retinal cell culture," <i>Molec. Vis.</i> 5:4 (1999).	
	HZ	HANNINK et al., "Deletions in the C-Terminal Coding Region of the v-sis Gene: Dimerization Is Required for Transformation" <i>Mol. And Cellular Biol.</i> 1304-1314 (1986).	
	IA	HIRAI et al., "Expression of Vascular Endothelial Growth Factors (VEGF-A/VEGF-1 and VEGF-C/VEGF-2) in Postmenopausal Uterine Endometrial Carcinoma," <i>Gynecol. Oncol.</i> 80:181-188 (2001).	
	IB	KELLEY et al., "Regulation of a Proliferation and Photoreceptor Differentiation in Fetal Human Retinal Cell Cultures," <i>Invest. Ophthalmol. Vis. Sci.</i> 36(7):1280-1289 (1995).	
	IC	MAGLIONE et al., "Two alternative mRNAs coding for the angiogenic factor, placenta growth factor (PIGF), are transcribed from a single gene of chromosome 14," <i>Oncogene</i> 8:925-931 (1993).	
	ID	NGO et al., The Protein Folding Problem and Tertiary Structure Prediction, Kenneth Merz, Jr. and Scott LeGrand, eds., Birkhauser, Boston, pp. 492-495 (1994).	
	IE	RUDIKOFF et al., "Single amino acid substitution altering antigen-binding specificity," <i>Proc. Natl. Acad. Sci. USA</i> , 79(6):1979-1983 (Mar. 1982)	
	IF	SCHULZ-KEY et al., "Ciliary Neurotrophic Factor as a Transient Negative Regulator of Rod Development in Rat Retina," <i>Invest. Ophthalmol. Vis. Sci.</i> 43(9):3099-3108 (2002).	
	IG	STACKER et al., "The Vascular Endothelial Growth Factor Family: Signalling for Vascular Development," <i>Growth Factors</i> , Vol. 17, pp. 1-11 (1999).	
	IH	JOOSTEN et al., "The production of antibody fragments and antibody fusion proteins by yeasts and filamentous fungi," <i>Microbial Cell Factories</i> 2:1 (Jan. 30, 2003).	
	II	SKERRA et al., "Assembly of a functional immunoglobulin Fv fragment in <i>Escherichia coli</i> ," <i>Science</i> 240(4855):1038-1041 (May 20, 1988).	
	IJ	BETTER et al., "Escherichia coli secretion of an active chimeric antibody fragment," <i>Science</i> 240(4855):1041-1043 (May 20, 1988).	
	IK	HOUCK, et al., "The vascular endothelial growth factor family: identification of a fourth molecular species and characterization of alternative splicing of RNA." <i>Molecular Endocrinology</i> . 5(12):1806-14 (1991).	
	IL	COLWELL, et al., "Method for generating a high frequency of hybridomas producing monoclonal IgA antibodies." <i>Methods Enzymol.</i> 121:42-51 (1986).	

Examiner Signature		Date Considered	
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Sheet	3	of	3		

NON PATENT LITERATURE DOCUMENTS				
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	IM	GenBank Accession No. S08167, PAULSSON et al., 1990.		
	IN	Supplementary Partial European Search Report, Application No. EP 02 72 6730, mailed August 4, 2004.		
	IO	Supplementary Partial European Search Report, Application No. EP 02 72 1715, mailed January 10, 2005.		
	IP	Supplementary Partial European Search Report, Application No. EP 02 72 1715, mailed October 22, 2004.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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